

Please amend the claims as follows:

Please amend claim 1 as follows:

1. (Currently Amended) A process for producing a non-aqueous sol-gel spin-on glass material comprising a hybrid glass/polymer material, by reacting an alkyl or dialkyl substituted trialkoxysilane or dialkyl substituted dialkoxysilane with a silane diol, wherein said alkyl group has from 1 to 8 carbon atoms, wherein the reaction of the alkyl substituted trialkoxysilane or dialkyl substituted dialkoxysilane silane with the silane diol is carried out in a non-aqueous medium in the presence of a catalyst, wherein the catalyst is selected from: a) a tin catalyst or b) a dibutyltin diluarate, titanium isopropoxide, acetic acid or trifluoroacetic acid catalyst.

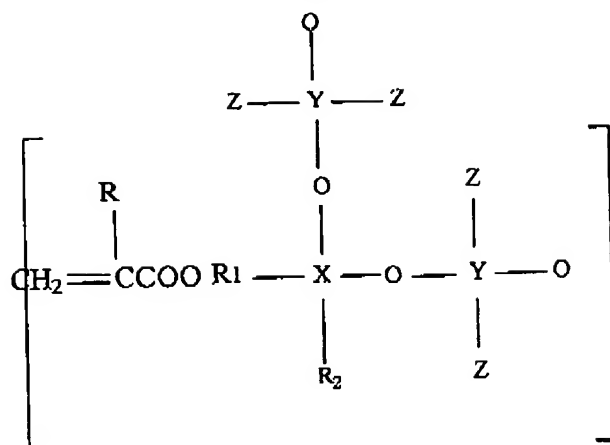
Please cancel claim 4.

Please cancel claim 6.

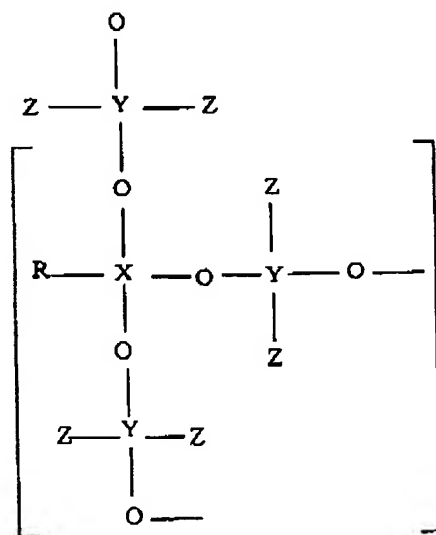
Please cancel claims 13-17.

Please amend claim 18 as follows:

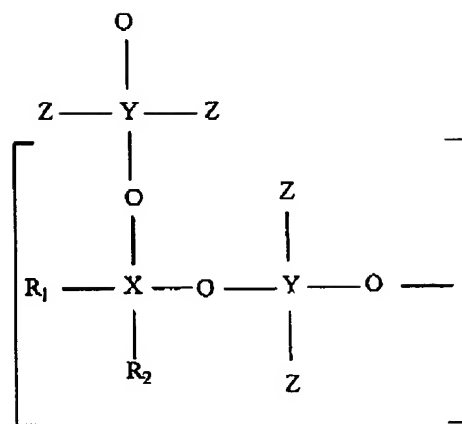
18. (Currently Amended) A non-aqueous sol-gel spin-on glass material comprising a hybrid glass/polymer material containing a phosphor dopant, which comprises YAG base phosphor or moisture sensitive phosphor nano-particles or an organic material selected from organic dyes or metal complexes, said sol-gel spin-on-glass material selected from the group having the following formulas:

Formula I

Where R = Hydrogen, C₁-C₈ Alkyl, Halogenated C₁-C₈ Alkyl or Glycidylalkyl
 R₁ = Ethyl, Propyl, another C₁-C₈ Alkyl, Halogenated C₁-C₈ Alkyl, Phenyl, or Halogenated Phenyl
 R₂ = Methyl, Ethyl or another C₁-C₈ Alkyl, Methyl, Ethyl
 X, Y = Si, Ge, Ti or Sn
 Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Formula II

Where R = Alkyl (C₁-C₈), Phenyl, Substituted Phenyl, Methacryloxyalkyl, Acryloxyalkyl or Glycidylalkyl
 R₁ = Phenyl or Substituted Phenyl, Ethyl, Propyl or another C₁ to C₈ Alkyl, or Trifluoroalkyl
 X, Y = Si, Ti, Ge, or Sn
 Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

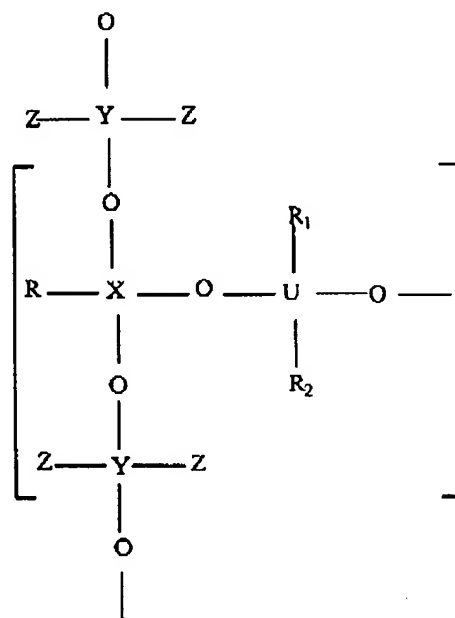
Formula III

Where R_1 = Phenyl or Substituted Phenyl, Ethyl, Propyl or another C_1 to C_8 Alkyl, or Trifluoroalkyl, Trifluoropropyl

R_2 = Methyl, Ethyl or another C_1 to C_8 Alkyl

X, Y = Si, Ge, Ti, or Sn

Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Formula IV

Where R = Alkyl (C_1 - C_8), Phenyl, Substituted Phenyl, Methacryloxyalkyl, Acryloxyalkyl or Glycidyoxyalkyl

R_1 = Phenyl or Substituted Phenyl, Ethyl, Propyl or another C_1 to C_8 Alkyl, Phenyl or Trifluoroalkyl

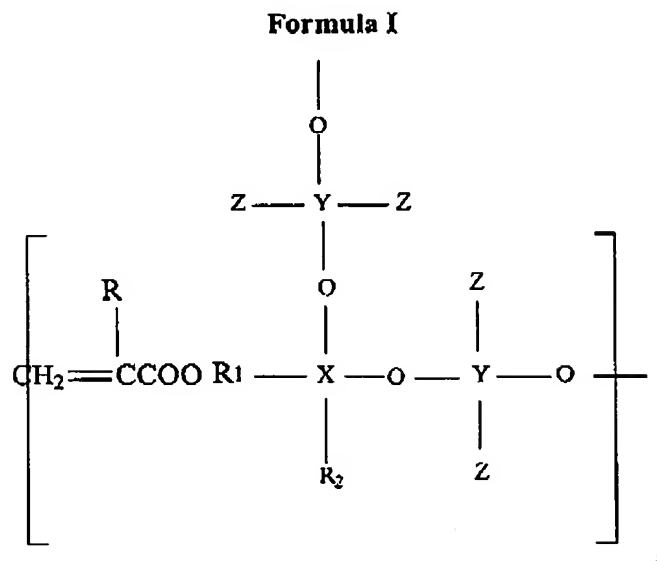
R_2 = Alkyl, Methyl, Ethyl or another C_1 to C_8 Alkyl or Phenyl

$\text{X}, \text{U}, \text{Y}$ = Si, Ge, Ti, or Sn

Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Please amend claim 19 as follows:

19. (Currently Amended) The non-aqueous sol-gel spin-on glass material of claim 18, having the following formula:



Where R = Hydrogen, C₁-C₈ Alkyl, Halogenated C₁-C₈ Alkyl or Glycidylalkyl

R₁ = Ethyl, Propyl, another C₁-C₈ Alkyl, Halogenated C₁-C₈ Alkyl, Phenyl or Halogenated Phenyl

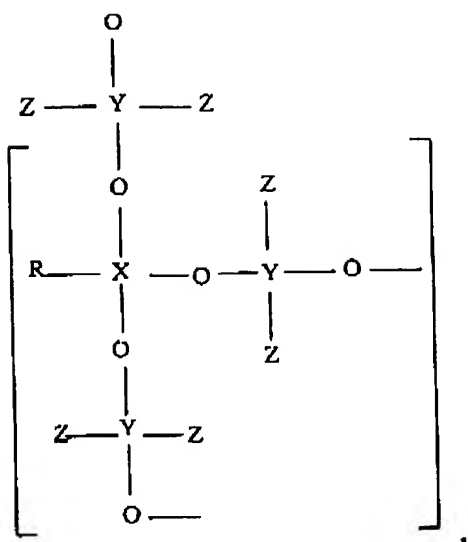
R₂ = Methyl, Ethyl or another C₁-C₈ Alkyl

X, Y = Si, Ge, Ti or Sn

Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Please amend claim 20 as follows:

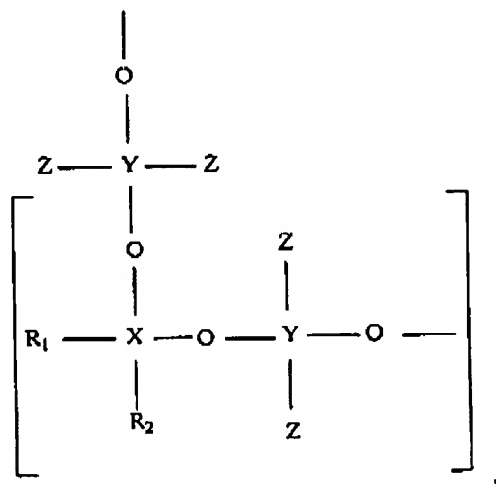
20. (Currently Amended) The non-aqueous sol-gel spin-on glass material of claim 18, having the following formula:

Formula II

Where R = Alkyl (C₁-C₄), Phenyl, Substituted Phenyl
 X, Y = Si, Ti, Ge or Sn
 Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Please amend claim 21 as follows:

21. (Currently Amended) The non-aqueous sol-gel spin-on glass material of claim 18, having the following formula:

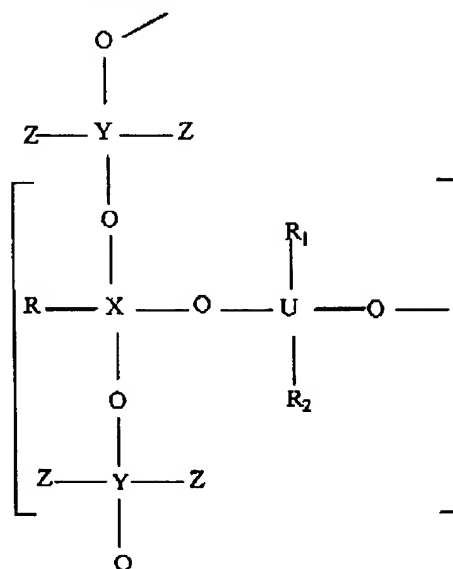
Formula III

Where R_1 = Phenyl, Ethyl, Propyl, Trifluoropropyl
 R_2 = Methyl, Ethyl
 X, Y = Si, Ge, Ti or Sn
 Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Please amend claim 22 as follows:

22. (Currently Amended) The non-aqueous sol-gel spin-on glass material of claim 18, having the following formula:

Formula IV



Where R = Alkyl (C_1 , C_2), Phenyl, Substituted Phenyl
 R_1 = Alkyl, Phenyl
 R_2 = Alkyl, Phenyl
 X, U, Y = Si, Ge, Ti or Sn
 Z = Alkyl, Substituted Alkyl, Phenyl, Substituted Phenyl

Please cancel claims 23, 24 and duplicate claim 24 (Should be 25).

Please amend claim 25 as follows:

25. ~~26.~~ (Currently Amended) The non-aqueous sol-gel spin-on glass material of claim 17 ~~18~~, further comprising a UV light blocking material and/or an oxygen scavenger.

Please amend claim 26 to as follows:

26. ~~27.~~ (Currently Amended) The non-aqueous sol-gel spin-on glass material of claim 17 ~~18~~, further comprising a light-scattering material.

Please cancel claims 28-33 (previously numbered 27-32), as drawn to a non-elected invention.

Please add new claims 34, 35 and 36 as follows:

34. (New) The non-aqueous sol-gel spin-on glass material of claim 18, wherein the phosphor dopant comprises YAG base phosphor or moisture sensitive phosphor nano-particles.
35. (New) A process for producing the non-aqueous sol-gel spin-on glass material of claim 18, the process comprising reacting an alkyl substituted trialkoxysilane or dialkyl substituted dialkoxysilane with a silane diol, wherein said alkyl group has from 1 to 8 carbon atoms, wherein the reaction of the alkyl substituted trialkoxysilane or dialkyl substituted dialkoxysilane silane with the silane diol is carried out in the presence of a catalyst, the process further comprising adding to said sol-gel spin-on glass material a phosphor dopant, which comprises YAG base phosphor or moisture sensitive phosphor nano-particles or an organic material selected from organic dyes or metal complexes.
36. (New) The process of claim 35, wherein the phosphor dopant comprises YAG base phosphor or moisture sensitive phosphor nano-particles.